



**ERS Online Course**  
**Virtual academy of paediatric respiratory medicine**  
**01-02 July 2021**  
**08-10 July 2021**

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**Thursday, 01 July 2021**

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09:00–09:15	Welcome and introduction - E. Eber, M. Gappa, F. Midulla
	<b>Session 1 - Airway endoscopy</b>
	<b>Chairs:</b> E. Eber, F. Gesenhues
09:15–10:15	Rigid and flexible bronchoscopy: diagnostic and interventional - F. Midulla
10:15–10:35	Q&A - F. Midulla
10:35–10:45	<i>Break</i>
	<b>Session 2 - Congenital malformations</b>
	<b>Chairs:</b> F. Midulla, F. Gesenhues
10:45–11:30	Airway and vascular malformations - E. Eber
11:30–11:40	<i>Break</i>
11:40–12:20	Parenchymal lung malformations - E. Eber
12:20–12:40	Q&A - E. Eber
12:40–13:40	<i>Lunch</i>
13:40–14:10	Case based discussion on congenital malformations (cases submitted by participants) - E. Eber
14:10–14:30	<i>Break</i>



### **Session 3 - Lung function testing**

**Chairs:** M. Gappa, N. Regamey, M. Ramphul

14:30–14:45	Inflammatory markers - N. Regamey
14:45–15:15	Static and dynamic lung volumes and their measurement - N. Regamey
15:15–15:30	Q&A - N. Regamey
15:30–15:40	<i>Break</i>
15:40–16:00	Reversibility testing and bronchial provocation - M. Gappa
16:00–16:20	Multiple breath washout techniques - M. Gappa
16:20–16:35	Q&A - M. Gappa
16:35–16:45	<i>Break</i>
16:45–17:15	Case based discussion on lung function testing (cases submitted by participants) - M. Gappa, N. Regamey



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## Friday, 02 July 2021

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### **Session 4 – Acute and chronic respiratory infections**

**Chairs:** M.W.H. Pijnenburg, E. Eber, V. Comanici

- 09:00–09:20 Protracted bacterial bronchitis - E. Eber
- 09:20–10:00 Pneumonia in children, pleural infection, necrotising pneumonia and lung abscess - M. Pijnenburg
- 10:00–10:20 Q&A – E. Eber, M. Pijnenburg
- 10:20–10:30 *Break*
- 10:30–11:00 Case based discussion on acute and chronic respiratory infections without TB (cases submitted by participants) - E. Eber, M.W.H. Pijnenburg

11:00–11:15 *Break*

### **Session 5 - Imaging and sleep medicine**

**Chairs:** A. Hadchouel-Duvergé, K. Deokar

- 11:15–11:30 Lung ultrasound - M. Beer
- 11:30–12:00 Advantages and disadvantages of imaging techniques - M. Beer
- 12:00–12:15 Q&A - M. Beer
- 12:15–13:15 *Lunch break*
- 13:15–13:45 Assessment of sleep disordered breathing - R. Hamutcu Ersu
- 13:45–14:15 Chronic respiratory failure and noninvasive ventilation - R. Hamutcu Ersu
- 14:15–14:30 Q&A - R. Hamutcu Ersu

14:30–15:00 *Break*

### **Session 6: Workshops - Round 1**

Lung function testing - M. Gappa, N. Regamey

Endoscopy - E. Eber, F. Midulla

Imaging - M. Beer

Polysomnography - R. Hamutcu Ersu

16:00–16:15 *Break*



16:15–17:15

**Workshops - Round 2**

Lung function testing - M. Gappa, N. Regamey

Endoscopy - E. Eber, F. Midulla

Imaging - M. Beer

Polysomnography - R. Hamutcu Ersu



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## Thursday, 08 July 2021

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### **Session 7 - Bronchial asthma and wheezing disorders**

**Chairs:** F. Midulla, M.W.H. Pijnenburg, D. Berger

09:00–09:25 Acute viral bronchiolitis - F. Midulla

09:25–09:35 Q&A - F. Midulla

09:35–09:45 *Break*

09:45–10:30 Acute asthma and treatment of asthma in pre-schoolers and school children - M. Pijnenburg

10:30–10:40 Q&A - M. Pijnenburg

10:40–11:00 *Break*

### **Session 8 - Rare disorders**

**Chairs:** E. Eber, K. Deokar

11:00–11:30 Bronchopulmonary dysplasia and chronic lung disease of prematurity - A. Hadchouel-Duvergé

11:30–11:40 Q&A - A. Hadchouel-Duvergé

11:40–12:05 Surfactant dysfunction and alveolar proteinosis - A. Hadchouel-Duvergé

12:05–12:15 Q&A - A. Hadchouel-Duvergé

12:15–13:15 *Lunch break*

**Chairs:** R. Hamutcu Ersu, M. Ramphul

13:15–13:50 Interstitial lung diseases (and systemic disorders with lung involvement – online module) - A. Hadchouel-Duvergé

13:50–14:00 Q&A - A. Hadchouel-Duvergé

14:00–14:10 *Break*

14:10–14:40 Case based discussion on rare disorders (cases submitted by participants) - A. Hadchouel-Duvergé

14:40–15:00 *Break*



- 15:00–16:00      **Session 9: Workshops - Round 3**  
Lung function testing - M. Gappa, N. Regamey  
Endoscopy - E. Eber, F. Midulla  
Imaging - M. Beer  
Polysomnography - R. Hamutcu Ersu
- 16:00–16:15      *Break*
- 16:15–17:15      **Workshops - Round 4**  
Lung function testing - M. Gappa, N. Regamey  
Endoscopy - E. Eber, F. Midulla  
Imaging - M. Beer  
Polysomnography - R. Hamutcu Ersu



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## Friday, 09 July 2021

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### **Session 10 - Tuberculosis**

**Chairs:** M. Gappa, B. Marais, Y.T. Lam

09:00–09:30 Basics in diagnosis and treatment - M. Gappa  
09:30–09:40 Q&A - M. Gappa

09:40–09:50 *Break*

09:50–10:20 Multi-drug-resistant tuberculosis – B. Marais  
10:20–10:30 Q&A – B. Marais

10:30–10:40 *Break*

10:40–11:10 Case based discussion on tuberculosis (cases submitted by participants)

11:10–11:20 *Break*

### **Session 11 - Cystic fibrosis and non-CF bronchiectasis**

**Chairs:** F. Midulla, N. Regamey, Y.T. Lam

11:20–11:50 Primary ciliary dyskinesia and non-CF bronchiectasis - F. Midulla  
11:50–12:00 Q&A - F. Midulla

12:00–13:00 *Lunch Break*

13:00–13:30 Genetics, pathophysiology and diagnosis of CF - N. Regamey

13:30–13:35 *Break*

13:35–14:05 CF lung disease and lung transplantation - N. Regamey  
14:05–14:25 Q&A - N. Regamey

14:25–14:35 *Break*

14:35–15:05 Extrapulmonary CF - N. Regamey  
15:05–15:15 Q&A - N. Regamey

15:15–15:25 *Break*



- 15:25–15:55 Case based discussion on cystic fibrosis (cases submitted by participants)  
- F. Midulla
- 15:55–16:00 *Break*
- 16:00–17:00 Faculty on fire - challenge the experts with your questions – All faculty





# ERS Online Course HERMES self-assessment course in paediatric respiratory medicine

**10 July 2021**  
**25 August 2021**

*Additional registration required.*

*Special fee for Virtual academy participants: €75*

## **Simulated HERMES examination**

The mock examination will be available online throughout the duration of the virtual academy until the feedback and discussion session on 10 July 2021.

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## **Saturday, 10 July 2021**

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Faculty: J. Bhatt, P. Pohunek

09:00 – 11:00 Feedback and discussion of examination questions

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## **Wednesday, 25 August 2021**

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Faculty: A.M. Zwitserloot, R. Ross Russell

16:00–17:00 Q&A online session